

L7 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2000:715609 CAPLUS
 DOCUMENT NUMBER: 133:280878
 TITLE: Method for manufacturing natural type **N-acetyl-D-glucosamine** as food
 INVENTOR(S): Katsumi, Ryosuke; Matahira, Yoshiharu; Kikuchi, Kazuaki; Sakai, Kazuo
 PATENT ASSIGNEE(S): Yaizu Suisan Kagaku Kogyo K. K., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 3 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000281696	A2	20001010	JP 1999-85771	19990329

AB The title method involves selective sepn. of **N-acetyl-D-glucosamine** (I) from a mixt. of I and N-acetylchitooligosaccharide (products from acidic hydrolysis of chitin) by the use of a sepn. membrane (e.g., NTR-7410HG). The title method provides I with 99% **purity**.

L7 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1999:816485 CAPLUS
 DOCUMENT NUMBER: 132:349193
 TITLE: Synthesis and properties of **N-acetyl-D-glucosamine**
 AUTHOR(S): Li, Jiheng; Li, Nan; Yu, Yanling; Yu, Youwen
 CORPORATE SOURCE: Dep. of Biochem., China Pharm. Univ., Nangjing, 210009, Peop. Rep. China
 SOURCE: Yaowu Shengwu Jishu (1999), 6(3), 147-149
 CODEN: YSJIFO; ISSN: 1005-8915
 PUBLISHER: Yaowu Shengwu Jishu Bianjibu
 DOCUMENT TYPE: Journal
 LANGUAGE: Chinese

AB **N-acetyl-D-glucosamine** (N-AcGA) was synthesized from D-glucosamine hydrochloride (D-GlcN.cntdot.HCl) and acetic anhydride with the yield of 76.4% and the **purity** of 99.6%. The product has the soly. of 0.27% in ethanol with 30.degree.C, in contrast to 20% in water with 5.degree. and 53% in water with 100.degree.. The compd. was confirmed by PLC, DSC, IR, optical activity and elementary anal., and has mp of 176.apprx.204.degree. and [α]D₂₀ of + 40.72.

L7 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1999:167376 CAPLUS
 DOCUMENT NUMBER: 131:4356
 TITLE: Macroporous chitin affinity membranes for wheat germ agglutinin purification from wheat germ
 AUTHOR(S): Zeng, Xianfang; Ruckenstein, Eli
 CORPORATE SOURCE: Department of Chemical Engineering, State University of New York at Buffalo, Amherst, NY, 14260, USA
 SOURCE: Journal of Membrane Science (1999), 156(1), 97-107
 CODEN: JMESDO; ISSN: 0376-7388
 PUBLISHER: Elsevier Science B.V.
 DOCUMENT TYPE: Journal
 LANGUAGE: English

AB Macroporous chitin membranes of controlled porosity and pore sizes were prepd. They have good mech. properties and allow high flow rates of protein solns. at low pressure drops. Because of the numerous **N-acetyl-D-glucosamine** (GlcNAc) moieties they

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